

Compliance Component

		DEFINITION				
Name	Router					
Description	of the (is base networ Routing "Route traffic t	g tables can be populated through dynamic or static entries. The term r'' is derived from this routing table. Routers can also be used to filter through access-lists, provide quality of service, bridge networks, provide				
Rationale	switching functions, and enforce policy mapping. Routers provide the basic connectivity for internetworking, by allowing different networks to communicate. Routers select the correct interface and next hop for the packet being forwarded. Routers can provide multiple redundant active paths to a destination network.					
Benefits	connec	s help clear up network congestion, segment networks, provide network tivity, increase functionality, provide filtering, enforce quality of service, e policy mapping, and allow for multiple redundant paths to a destination.				
		ASSOCIATED ARCHITECTURE LEVELS				
Specify the Domain N	lame	Infrastructure				
Specify the Discipline	Name	Network				
Specify the Technology Area Name		Network Hardware				
Specify the Product Component Name		Cisco Routers				
		COMPLIANCE COMPONENT TYPE				
Document the Compliance Component Type		Guideline (Currently the State standard)				
Component Sub-type						
		COMPLIANCE DETAIL				
State the Guideline, S or Legislation	Standard	Routers must have the following characteristics: • Two or more logical interfaces • One or more physical interfaces • Have an operating system • Have an interface to facilitate management (e.g., Console Port) • Be capable of using access lists to filter • Be capable of forwarding traffic using TCP/IP and UDP • Support the following Routing Protocols: Routing Information Protocol (RIP) and Open Shortest Path First (OSPF) • Support the Simple Network Management Protocol (SNMP) • Support dynamic and static routing updates • Support image upgrades				

	Rou	according to be Border Gatew	P configitional followings for the contract of	juration eature sets f ss needs (e.g tocol (BGP)) nctions (e.g. ng	or a vag., IPX	/SP)	ry of applications K, AppleTalk, DecNet, oute or Translational	
Document Source Reference	e# IET	F RFC 1812, 1716	6, 793,	791, and 76	6 8			
		Compli		ources				
Name	Inte For	ernet Engineering ce	Task	Website	www	.ietf	f.org	
Contact Information	<u>iett</u>	-info@ietf.org						
		KE'	YWOR	DS				
List Keywords	filte		, policy	routing, RII			ork Layer, OSI Model IGRP, OSPF, BGP,	۱,
		COMPONENT	T CLAS	SSIFICATIO	N			
Provide the Classification		Emerging 🗵	Current		Twilight		☐ Sunset	
Sunset Date								
		COMPONENT S	UB-CI	LASSIFICAT	ION			
Sub-Classification	Date		Additio	onal Sub-Class	ification	n Info	ormation	
☐ Technology Watch								
☐ Variance								
Conditional Use								
		Rationale for Co	mpone	ent Classific	ation			
Document the Rationale for Component Classification								
		Migrat	tion St	rategy				
Document the Migration Strategy								
		Impact Po	sition	Statement				
Document the Position Statement on Impact								
		CURRE	ENT ST	TATUS				
Provide the Current Status		In Development] Under F	Review 🖂	Approve	d	☐ Rejected	
		AUI	OIT TR	AIL				
Creation Date	3-2	4-2004	Dat	e Approved / Rej	ected	4/1	3/04	

	Reason for Rejection		
1	ast Date Reviewed	Last Date Updated	
	Reason for Update		